# REGIONE REGIONE PIEMONTE (ITALY) Technologies HEALTHCARE http://www.regione.piemonte.it/ Itechnologies HEALTHCARE Title: MARISSA Participants:

Authors: Sergio Chiesa; Giuseppe Tartara Author Affiliations: S.P.A.I.C.srl: Provincia di Torino

MARISSA study sees the collaboration of NT-Planet sas, CAB Electra snc and IEIIT-CNR, with the support of Tele-Hospital srl



Mobilità Autonomia Robots Innovativi Servizio Supporto Anziani



# What is MARISSA?

MARISSA (an English translation of the Acronyms could be: "Mobility and Innovation for Small Mobile Robotic Vehicles for Senior People Monitoring and Care") is a concept of a Robotic System capable of assisting Old People, that live alone in their house.

The System allows :

• That a remote User (Familiar or Social Operator) can **visually monitor the Person** under care at any time

• That he/she can **communicate easily whenever he/she wants** (with view of a "well known face").

That the System could also perform simple tasks, like, for instance, "diary", "clock" and administering medicines at the right time, with check of the effective consumption.

# PIEMONTE Technologies HEALTHCARE **REGIONE PIEMONTE (ITALY)** from Space http://www.regione.piemonte.it/ Exploration Title: MARISSA Participants: Authors: Sergio Chiesa; Giuseppe Tartara MARISSA study sees the collaboration of NT-Planet sas, CAB Electra snc and IEIIT-CNR, Author Affiliations: S.P.A.I.C.srl: Provincia di Torino with the support of Tele-Hospital srl REMOTE OPERATOR Old Person house

PERSON TRACKING

Capability

EASY

Interface

**HUMAN** 

**Factors** 

**AUTO** 

DIAGNOSTIC

DATA

Recording

**SAFE Tele-**

-communication

**AUTONOMOUS** 

NAVIGATION

inside the HOUSE

**AVOID or OVERTAKING** 

**OBSTACLES** 



# Main advantages expected by MARISSA Project:

a)In case of self sufficient Person, MARISSA will allow a concrete possibility of staying in his/her house, even if alone, with acceptable level of Safety and a good situation of communication with relatives

b) The cost of MARISSA that offers a h24 service will be extremly competitive with the cost of service of a Person (not a specialized nurse) that works for the same number of hours

c)A dramatic reduction (thanks to prevention) of cost for National Health System (emergency calls and consequent Hospitalization)

d) The psycological advantage for many Elderly People is the possibility of keeping on staying in their houses





### REGIONE Technologies HEALTHCARE PIEMONTE **REGIONE PIEMONTE (ITALY)** from Space http://www.regione.piemonte.it/ Exploration Title: MARISSA Participants: Authors: Sergio Chiesa; Giuseppe Tartara MARISSA study sees the collaboration of NT-Planet sas, CAB Electra snc and IEIIT-CNR, Author Affiliations: S.P.A.I.C.srl: Provincia di Torino with the support of Tele-Hospital srl Planet electra **IT** Planet The MARISSA team IEIIT Cab Electra S.r.l. NT-Planet s.a.s. S.P.A.I.C. srl

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MARISSA has been conceived by S.P.A.I.C. srl that has proposed it, together with other Partners (two SME and a Research Institute), as a Project to be developed with financial Support of Italian Ministry of Research (MIUR).
The project has been rated very high even if the financial contribute of Ministry is not available yet.

In the meanwhile the MARISSA Team has continued to study the Concept.
The experience in the meantime acquired by S.P.A.I.C.srl in Space Exploration context is CONTINOUSLY transferred to the development of MARISSA and this will be certainly relevant for the future evolution.

